CLAIMS

What is claimed is:

1. A method of fabricating a micro pipe, comprising the steps of:

providing a substrate;

providing a base layer on said substrate;

providing a trench in said base layer;

providing a photoresist layer on said base layer and covering said trench; and

imparting a generally arcuate configuration to said photoresist layer by subjecting said photoresist layer to ionizing radiation.

- 2. The method of claim 1 further comprising the step of heating said photoresist layer during said subjecting said photoresist layer to ionizing radiation.
- 3. The method of claim 1 wherein said base layer comprises a material selected from the group consisting of a metal and an oxide.

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- 4. The method of claim 3 further comprising the step of heating said photoresist layer during said subjecting said photoresist layer to ionizing radiation.
- 5. The method of claim 1 wherein said ionizing radiation comprises UV radiation.
- 6. The method of claim 5 further comprising the step of heating said photoresist layer during said subjecting said photoresist layer to ionizing radiation.
- 7. The method of claim 5 wherein said base layer comprises a material selected from the group consisting of a metal and an oxide.
- 8. The method of claim 7 further comprising the step of heating said photoresist layer during said subjecting said photoresist layer to ionizing radiation.

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9. A method of fabricating a micro pipe, comprising the steps of:

providing a substrate;
providing a base layer on said substrate;
providing a trench in said base layer;

providing a photoresist layer having a thickness of from about 1 um to about 10 um on said base layer and covering said trench; and

imparting a generally arcuate configuration to said photoresist layer by subjecting said photoresist layer to ionizing radiation.

- 10. The method of claim 9 further comprising the step of heating said photoresist layer to a temperature of from about 150 degrees C to about 300 degrees C during said subjecting said photoresist layer to ionizing radiation.
- 11. The method of claim 9 wherein said base layer comprises a material selected from the group consisting of aluminum, copper, titanium nitride and an oxide.

- 12. The method of claim 11 further comprising the step of heating said photoresist layer to a temperature of from about 150 degrees C to about 300 degrees C during said subjecting said photoresist layer to ionizing radiation.
- 13. The method of claim 9 wherein said ionizing radiation comprises UV radiation having a wavelength of from about 100 nm to about 350 nm.
- 14. The method of claim 13 further comprising the step of heating said photoresist layer to a temperature of from about 150 degrees C to about 300 degrees C during said subjecting said photoresist layer to ionizing radiation.
- 15. The method of claim 13 wherein said base layer comprises a material selected from the group consisting of aluminum, copper, titanium nitride and an oxide.
- 16. The method of claim 15 further comprising the step of heating said photoresist layer to a temperature of from about 150 degrees C to about 300 degrees C during said subjecting said photoresist layer to ionizing radiation.

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17. A method of fabricating a micro pipe, comprising the steps of:

providing a substrate;

providing a base layer on said substrate;

providing a trench in said base layer;

providing a positive polymeric photoresist layer on said base layer and covering said trench; and

imparting a generally arcuate configuration to said photoresist layer by subjecting said photoresist layer to ionizing radiation.

- 18. The method of claim 17 further comprising the step of heating said photoresist layer to a temperature of from about 150 degrees C to about 300 degrees C during said subjecting said photoresist layer to ionizing radiation.
- 19. The method of claim 17 wherein said base layer comprises a material selected from the group consisting of aluminum, copper, titanium nitride and an oxide.
- 20. The method of claim 17 wherein said ionizing radiation comprises UV radiation having a wavelength of from about 100 nm to about 350 nm.